

Serial No.: 10/563,660
Docket No.: 09792909-6521
Amendment dated March 4, 2009
Reply to the Office Action of December 4, 2008

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An ink-jet recording method in which recording is executed by discharging inks of a plurality of colors from a discharge opening as droplets of ink to be attached onto a recording material, the method comprising:

discharging ~~an ink~~inks of a first color and ~~an ink of~~ a second color at an interval of 200 msec or less;

using inks having a surface tension of 25 to 45 mN/m at 23°C and an ink solvent containing water for each of said inks~~said first ink and said second ink~~; and

using a recording material having an ink absorption amount in 100 msec of 15 mL/m² or more.

2. (Currently Amended) The ink-jet recording method according to claim 1, further comprising:

discharging said ~~first ink and said second ink~~inks using a line head.

3. (Previously Presented) The ink-jet recording method according to claim 1, wherein the recording material has an ink absorption amount in 100 msec between 15 and 99 mL/m².

4. (Currently Amended) An ink-jet printer in which recording is executed by discharging inks of a plurality of colors from a discharge opening as droplets of ink to be attached onto a recording material, comprising:

an interval between a discharge of an ink of a first color and a discharge of an ink of a second color is 200 msec or less;

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an ink surface tension of 25 to 45 mN/m at 23°C for said inks of each color; ~~and~~
an ink absorption amount of said recording material in 100 msec is 15 mL/m² or more;
and
an ink solvent containing water for said inks of each color.

5. (Previously Presented) The ink-jet printer according to claim 4, further comprising:

a line head to discharge the inks.

6. (Previously Presented) The ink-jet printer according to claim 4, wherein the ink absorption amount in 100 msec of said recording material is between 15 and 99 mL/m².

7. (Previously Presented) The ink-jet printer according to claim 1, wherein the ink absorption amount of said recording material in 100 msec is between 15 and 40 mL/m².

8. (Previously Presented) The ink-jet printer according to claim 4, wherein the ink absorption amount of said recording material in 100 msec is between 15 and 40 mL/m².

9. (Previously Presented) The ink-jet printer according to claim 1, wherein the ink absorption amount of said recording material in 100 msec is between 18 and 40 mL/m².

10. (Previously Presented) The ink-jet printer according to claim 4, wherein the ink absorption amount of said recording material in 100 msec is between 18 and 40 mL/m².

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11. (New) The ink-jet printer according to claim 1, further comprising:
adding an organic solvent to said ink solvent,
wherein said organic solvent is 5 to 50% of a total mass of each of said inks.
12. (New) The ink-jet printer according to claim 11, further comprising:
adding an organic solvent to said ink solvent,
wherein said organic solvent is 10 to 35% of the total mass of each of said inks.
13. (New) The ink-jet printer according to claim 1, further comprising:
adjusting surface tension of each of said inks by adding one of an anion surfactant, a cation surfactant, a nonionic surfactant, and an ampholytic surfactant to each of said inks.
14. (New) The ink-jet printer according to claim 1, further comprising:
adding one of a pH adjuster, an amine, chelating reagent, preservative, antirust, and ultraviolet absorber to each of said inks.
15. (New) The ink-jet printer according to claim 4, wherein said ink solvent contains an organic solvent of 5 to 50% of a total mass of each of said inks.
16. (New) The ink-jet printer according to claim 4, wherein said ink solvent contains an organic solvent of 10 to 35% of a total mass of each of said inks.